

## SIRECON 40-4 HDR

**AX**

Service (1)

### Adjustment Instructions

I.I. Power Supplies 40-4 HDR

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English

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## Remarks

- These instructions apply to the following I.I. power supplies 40-4 HDR:
  - 38 29 103 X2181
- No adjustment is needed when there is replacement of the complete image intensifier unit with the I.I. power supply at the customer's location.
- An adjustment is necessary only after a replacement of the power supply.

## Required Documents

- Wiring Diagram, X2181
- Image intensifier test certificate

## Required Test Equipment

- Digital multimeter (DVM), e.g. Fluke 8060A

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## **Adjusting the 40-4 HDR I.I. Power Supply**

- The control and adjustment component of the I.I. power supply is adjusted at the factory along with the high voltage components. These work steps cannot be carried out in the field.
- This means that if there is a defect of the control and adjustment component or of a high voltage component, the complete I.I. power supply must be replaced.
- The 40-4 HDR power supply is mounted on a bracket and can only be replaced completely.

## General

- Use the voltage values given in the test certificate to check or reset the adjustment parameters of the I.I..
- The voltages are set in the factory for the replacement I.I..

## Setting the I.I. voltage levels (refer to circuit diagram X2181).

### NOTICE

**For optimal adjustment of the I.I., the reference voltage values given in the I.I. test certificate for the individual electrodes have to be set at the power supply.**

**After you switched on the power supply, wait 10 minutes before you begin setting the voltage values.**

**(Perform only when the power supply is being replaced).**

- Volt. 27V DMM at M<sub>P</sub> 27V to Mp. Gnd (for Zoom 3)  
Verify or set 27V .
- MA Anode: DMM at M<sub>P</sub> UAD  
Use pot U<sub>Ad</sub> (set nominal MA value according to test certificate).
- ME<sub>3</sub> DMM at M<sub>P</sub> UE3  
Use pot UE3<sub>N-Z3</sub> for all formats (set nominal values according to test certificate).
- ME<sub>2A</sub> DMM at M<sub>P</sub> UE2A  
Use pot UE2A<sub>N-Z3</sub> for all formats (set nominal values according to test certificate).
- ME<sub>2B</sub> DMM at M<sub>P</sub> UE2B  
Use pot UK2B<sub>N-Z3</sub> for all formats (set nominal values according to test certificate).
- ME<sub>1A</sub> DMM at M<sub>P</sub> UE1A  
Use pot UE2A<sub>N-Z3</sub> for all formats (set nominal values according to test certificate).
- ME<sub>1B</sub> DMM at M<sub>P</sub> UE1B  
Use pot UE1B<sub>N-Z3</sub> for all formats (set nominal values according to test certificate).
- You do not have to perform the image quality (IQ) test after you replaced the power supply and set the voltage values.

## Gettering the Image Intensifier

The I.I. is switched to continuous gettinger.

- If there is a resolution problem with the image intensifier, the voltage values must be checked per the test certificate, and if needed, must be readjusted.
- It is particularly important to check the lead connections from the I.I. power supply to the the image intensifier; make sure there is good contact.
- When plugging in the high voltage connector, the creep paths must be clean. If necessary, clean them with ether; do not use alcohol.
- If there really is a malfunction in the I.I. power supply, the complete power supply must be replaced (high voltage components with control and adjustment component)!

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No changes; initial publication

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